

**U.S. DEPARTMENT OF ENERGY
CONTRACT WORK AUTHORIZATION
AMERICAN RECOVERY AND REINVESTMENT ACT OF 2009: 89-09/10-0227
REVISED**

1a. Project Title: Nuclear Physics – Enhanced AIP funding at NP User Facilities (2005220)		1b. Work Proposal Number (if applicable): Various	
2. Headquarters Program Point of Contact. Name: Timothy J. Hallman Organization Code: SC-26 Telephone No.: (301) 903-3613			
3. Headquarters Budget Point of Contact. Name: Andrea Conrad Organization Code: SC-41 Telephone No.: (301) 903-3310			
4. Responsible Program: Nuclear Physics		5. Responsible Secretarial Officer: Director, Office of Science	
6. Responsible Field Organization: Brookhaven Site Office			
7a. Site and Facility Management Contractor: Science Associates – Brookhaven National Laboratory		7b. Contractor Point of Contact. Name: S. LaMontagne Telephone No.: 631-344-7141	
8. Work Authorization Number: KB/CH13/9/ARRA-3		9. Revision Number: 05	
10. Funds Authorized (\$ in thousands). B&R Code: KB Previous: \$8,000 Change: \$0 Current: \$8,000*			
11. Performance Period Covered by Funds. From: 2/17/09 To: 09/30/10		12. Work Start Date: 05/2009	
13. Expected Completion Date: 3/2013			
14. Statement of Work (See attached) <p>This Work Authorization is issued for the sole purpose of authorizing work in support of the American Recovery and Reinvestment Act of 2009, (Pub. L. 111-5) (Recovery Act). All contract terms and conditions apply to the work identified within, in particular contract provision H.999 applies. The work described in this work authorization shall be performed using funds obligated under the contract, appropriated under the Recovery Act, and as such is subject to special statutory conditions.</p> <p>The Office of Science (SC) is committed to conducting all work authorized herein, in a manner that ensures protection of the workers, the public, and the environment. Protecting the workers, the public, and the environment is a direct and individual responsibility of all SC managers and SC-supported contractors. Funds provided by NP will be applied as necessary to ensure that all NP activities are conducted safely and in an environmentally conscientious manner. Only work conducted in this way will be supported.</p> <p><u>Specific Recovery Act Statement of Work:</u></p> <p>\$5.07 in remaining uncosted funding is withdrawn to close out the accounting records to reflect completion of this ARRA project. The Office of Nuclear Physics will conduct the final closeout review of the project on April 11-12, 2013.</p> <p>Attachment A, Contractor Recovery Act Performance Requirements, identifies the Contractor Recovery Act Schedule Milestones, Performance Measures, and Outcomes and Deliverables for this Work Authorization. The contractor's performance against the identified requirements in Attachment A will be evaluated under the Office of Science laboratory appraisal process.</p>			

* Includes AIP funding \$8,000,000.

Continuation of WAS - Enhanced AIP funding at NP user facilities (2005220)

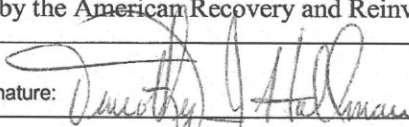
15. Reporting Requirements (Status reports, scientific and technical information or similar):

The recipient of funding in this Work Authorization is responsible for meeting all reporting requirements established by the Department of Energy for activities funded by the American Recovery and Reinvestment Act of 2009.

16. Work Authorization Program Official.

Name (typed): Timothy J. Hallman

Signature:



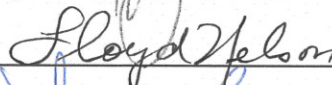
Date:

1/25/2013

17. DOE Field Organization Official.

Name (typed): LLOYD NELSON

Signature:



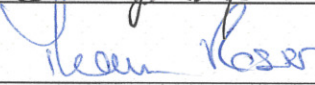
Date:

1/30/2013

18. Contractor's Authorized Representative.

Name (typed): THOMAS ROSE

Signature:



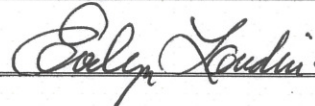
Date:

2/6/2013

19. DOE Contracting Officer (or delegated representative).

Name (typed): Evelyn Landini

Signature:



Date:

2/14/13

ATTACHMENT A – CONTRACTOR RECOVERY ACT PERFORMANCE REQUIREMENTS
Enhanced AIP funding at NP user facilities (2005220)
REVISED

Section A: <u>Contractor Recovery Act Schedule or Milestone Requirements</u>	
3Q FY09:	Start Design - Stochastic Cooling Plane
4Q FY09:	Begin purchasing - Stochastic Cooling Plane Solenoid, including power supply, ready to order - Electron Lens
1Q FY10:	Gun and collector ready to order - Electron Lens
2Q FY10:	Beam transport system ready to order - Electron Lens Start fabrication - Stochastic Cooling Plane
3Q FY10:	Diagnostics ready to order - Electron Lens
4Q FY10:	Begin construction - Stochastic Cooling Plane
2Q FY11:	Begin assembly of cavity and tanks - Stochastic Cooling Plane
3Q FY11:	Control system specified - Electron Lens Begin installation - Stochastic Cooling Plane
4Q FY11:	Begin utilities installation - Electron Lens Start Commissioning - Stochastic Cooling Plane
2Q FY12:	Solenoid vertical test - Electron Lens
2Q FY12:	Complete Stochastic Cooling
3Q FY12:	Complete Electron Lens
Section B: <u>Contractor Recovery Act Performance Outcomes and Measures</u>	
<ul style="list-style-type: none"> ▪ Complete Stochastic Cooling Plane and Electron Lens within 10% of planned cost and schedule. 	
Section C: <u>Contractor Recovery Act Deliverables</u>	
<ul style="list-style-type: none"> ▪ Stochastic cooling in both storage rings, and the electron lens components have been tested and are ready for installation. 	